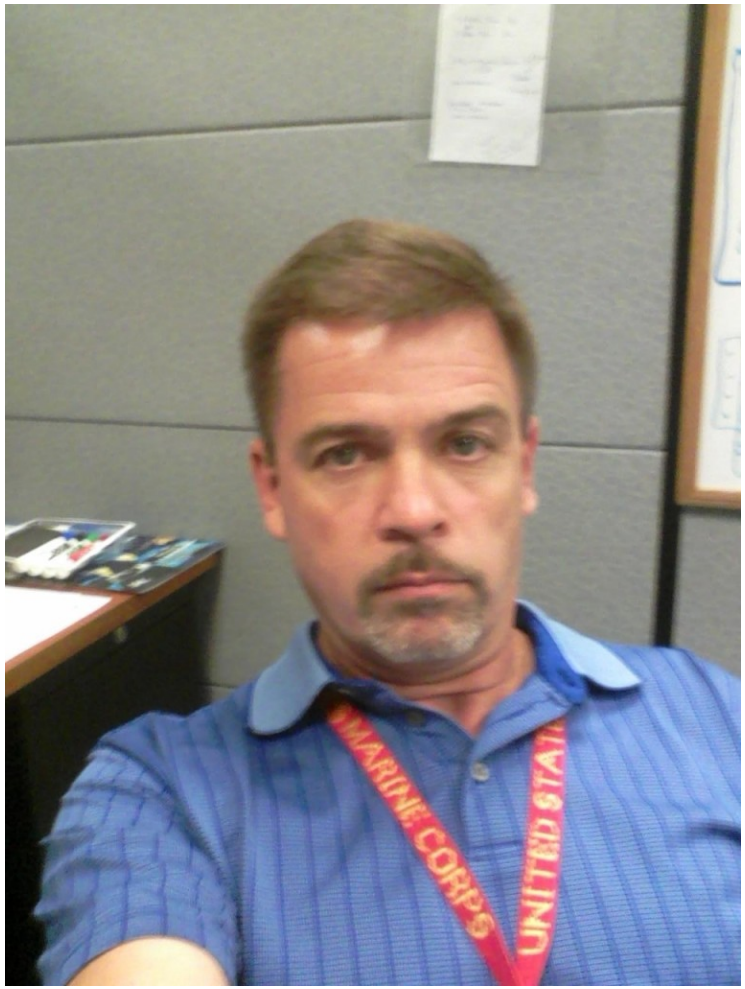
State of the Program

MSgt David P. Turner

YES….he did retire



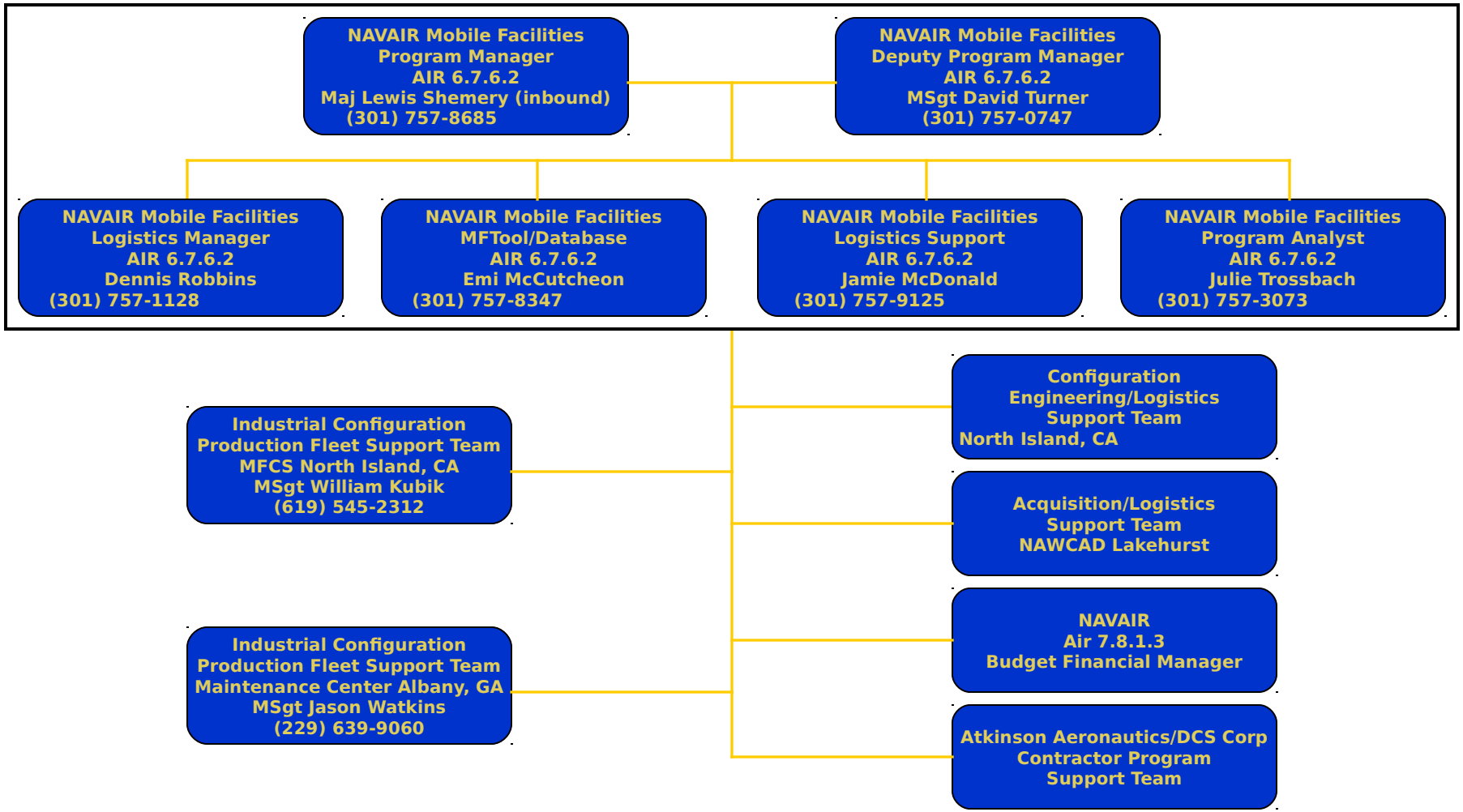
Mission Statement

Our mission is to act as the focal point for the Navy and Marine Corps MMF Program. Provide technical oversight for the planning, management, and delivery of configured mobile facilities and associated ancillary equipment in support of Navy and Marine Corps aviation units. Provide the resources and logistics processes required for the integrated planning, management, and delivery of internally configured mobile facilities and associated ancillary equipment in support of Navy and Marine Corps aviation units. Ensure the configuration of the mobile facilities meets the customer's requirements to perform aircraft maintenance, supply support, operational functions, metrology requirements, and other support applications.

CMC's 2010 Report to Congress

- **EXPEDITIONARY:** The Marine Corps is the Nation's naval expeditionary, combined-arms force-in-readiness. To Marines, *expeditionary* connotes *fast, austere,* and *lethal*.
- Expeditionary means rapid deployment by air or sea to crises of temporary duration.
- Expeditionary means being efficient and effective while operating in an austere environment —a task-organized force that is manned and equipped no larger or heavier than necessary to accomplish the mission.
- Expeditionary means being prepared for decisive action—to be lethal, if necessary—but also possessing the lesser-included capabilities for security operation, humanitarian assistance, or disaster relief.
- In summary, the term expeditionary to Marines goes to the very heart of our service culture, core values, and warrior ethos. Service as part of an expeditionary force means embracing a Spartan way of life and regular deployments on foreign soil in furtherance of our nation's interests.

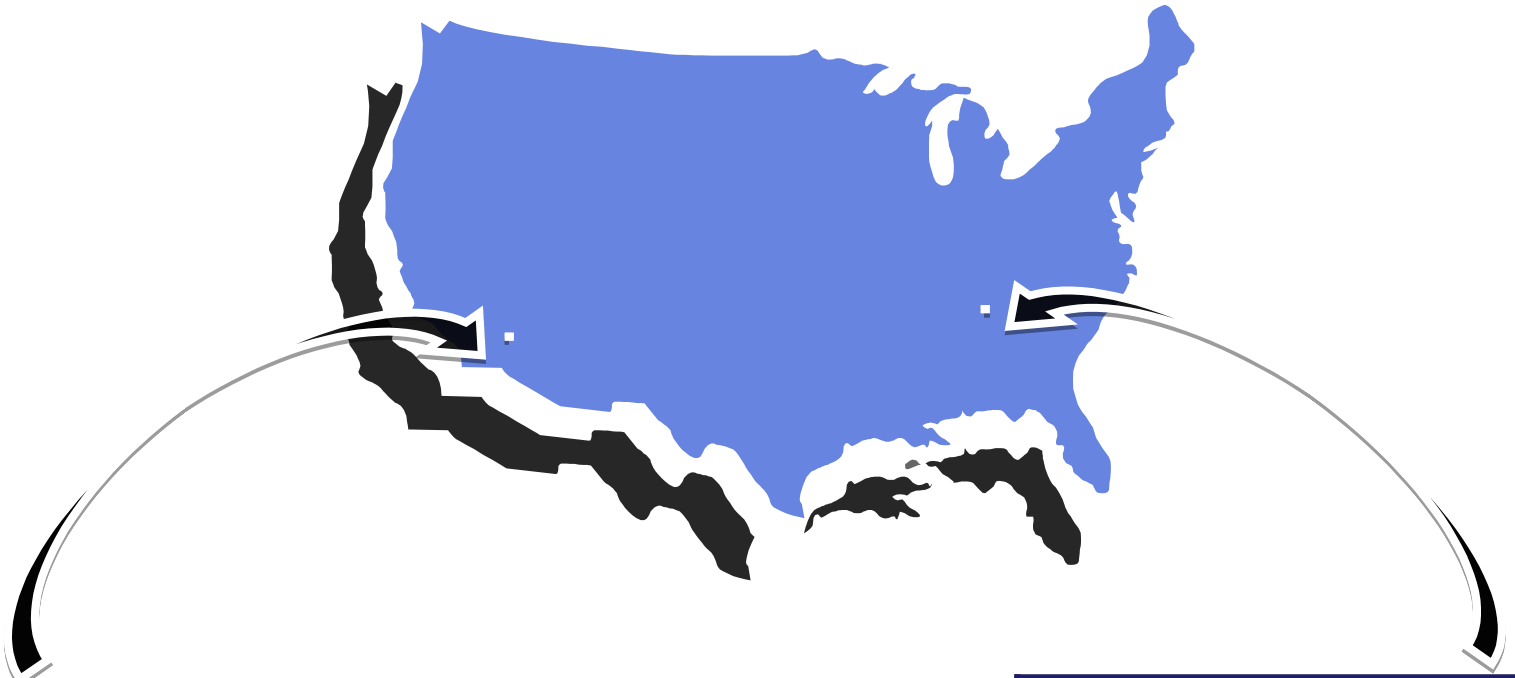
Organizational Structure



PAX Program POCs

- Program Manager – Maj Lewis “Ed” Shemery 301-757-8685
  - In bound to Program Office Aug 2011
  - APN-7 funds manager
- Deputy PM – MSgt David P. Turner 301-757-0747
  - O&M, N funds manager
  - TQG/Ancillary equip manager
- Logistics Manager – Dennis Robbins 301-757-1128
- Logistics/Production Manager – Jamie McDonald 757-444-1428
- Program Analyst – Julie Trossbach 301-757-3073
- Database Manager – Emi McCutcheon 301-757-8347
- BFM – Michelle Moorman 301-757-8328
- APN-7 Comptroller Analyst – April Coates-Thompson 301-757-7762
- O&M,N Comptroller Analyst – Renee Davidson 301-757-8345

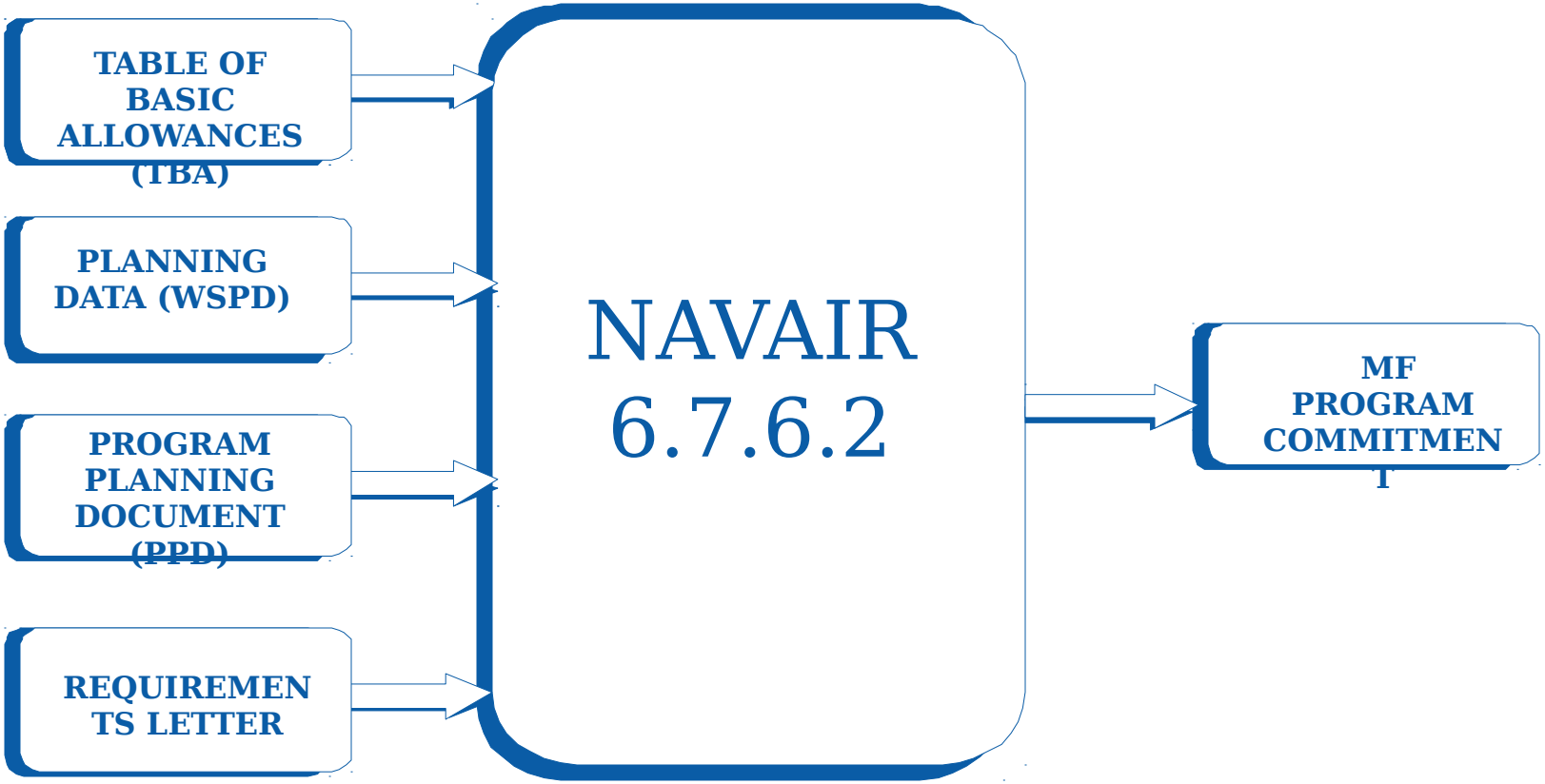
Configuration Sites



FRCSW North Island
Capacity: 6 MFs per month
2 MILPER
10 Artisans
4 Engineers

MCLB Albany, GA
Capacity: 15 MFs per month
2 MILPER
12 Artisans

Requirements Generation



Requirements Generation

- MF Program Office cannot establish our own requirements; they are created by the Fleet & many customers

- MF requirements are generated by:
  - Marine Corps Table of Basic Allowance (TBA) – approved by ASL
  - Navy's Weapon Systems Planning Documents (WSPDs) – approved by CNAF
  - Program Planning Documents (PPDs)
  - NAVAIR Program Office's (PMA) Requirements Letters

Program Funding Impacts

- The cost savings of refurbishing an MF versus purchasing a new shell has increased the demand upon O&M, N funds due to continued increasing costs in labor and materials
  - Most configuration costs (labor/materials) has doubled since some of these were initially built, some even tripled in cost
- Loss of N826 TAC resulted in self funding transportation costs
  - If no increase in baseline funds, decisions need to be made how to handle future shipments
  - Fleet's dime for returns??

Program Funding Impacts

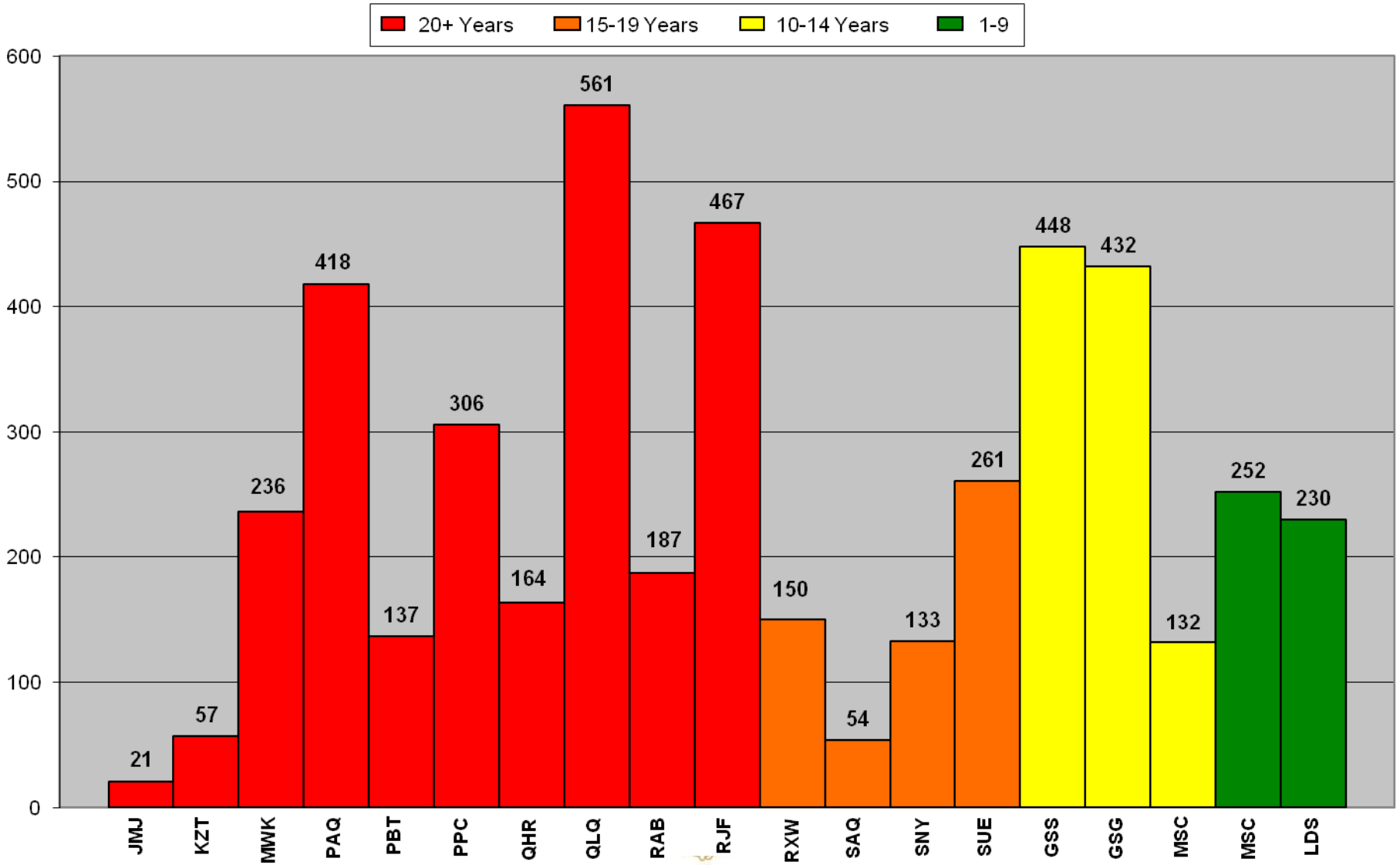
- There are 412 TBA shortages and 78 MFs that need to be replaced
  due to incompatibility with the existing configurations
  - We need to continually fight for funding in a fiscally constrained
    enviornment
  - We need your help in the “care and feeding” of the MFs

MOBILE FACILITY PROGRAM

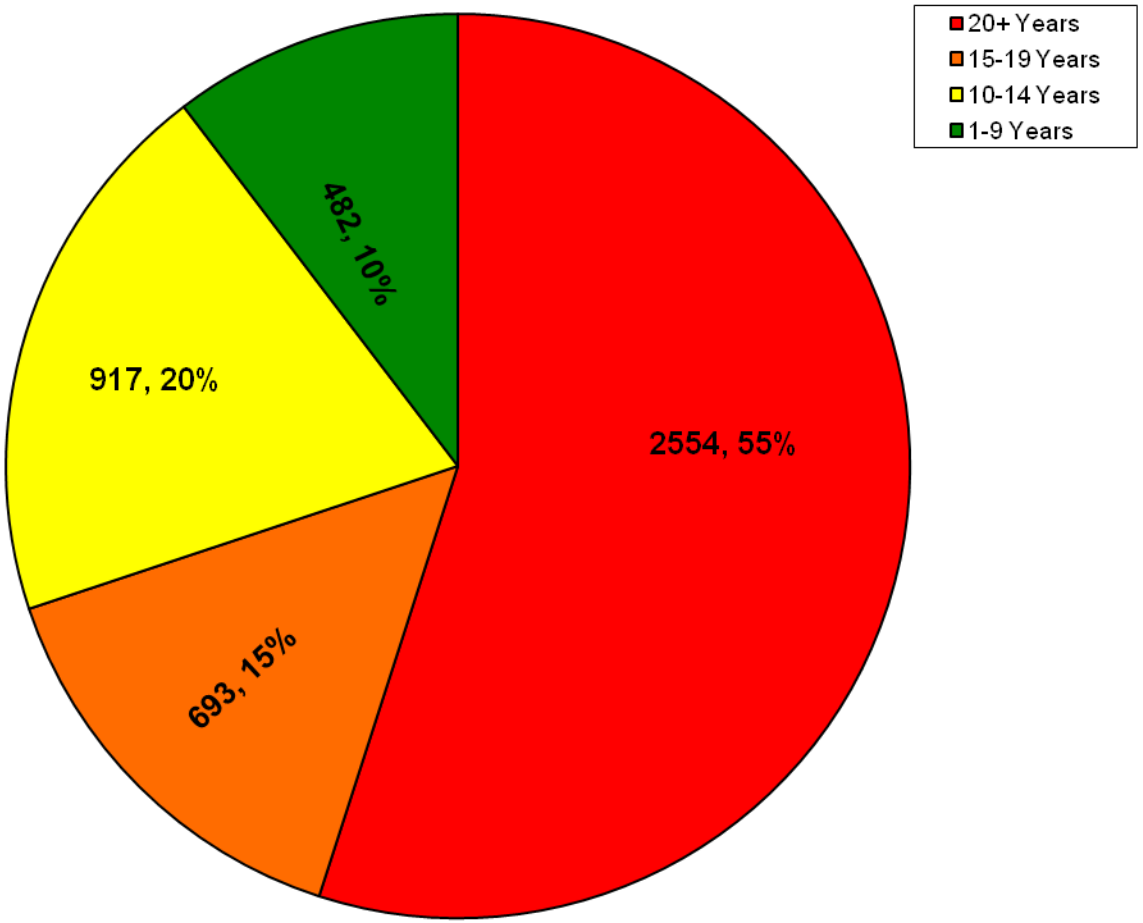
THE FINEST • ANYTIME • ANYPLACE

MF Inventory Lifespan

2011 MF LRG New



MF Inventory Lifespan



MF Surveys past year

- From 30 June 2010 to 1 June 2011, **(230)** MFs have been authorized for Survey
  - The oldest MF was 35 years old
  - The youngest was 8 years old, **12 years shy of its life cycle**
  - Avg life was 24 years old
- Of the (230), we are still awaiting **(44)** of the 1348 forms (DRMO rcpt)
- Of the (230), (33) are survey upon replacement

MF Survey Impacts

- MF Program Office has NO older MFI (INU's) in inventory that can be refurbished to fill surveyed INUs
  - Of the (230) MFs surveyed in past year, (42) were INUs
  - Total replacement MF procurements equates to a cost of **~$2.6M**
    - Does not include ~$20K cost of configuration (materials/labor) per INU
- Recently, an INU was erroneously DRMO'd (no survey request or approval)
  - MF spent 16 years in the fleet, back then it cost ~$35K (shell and config)
  - Today, to replace this error will cost ~$81K…..over double

MF Survey Impacts

- Gichner contract up for renewal Nov 2011
- Will be full open bid
  - Anticipate bids from many other vendors as we are getting “pinged” for info now
- If not awarded to Gichner, new vendor **MUST** build one of each type MF and go through first article testing

- **Can be three to four years before any new MFs be delivered to config sites for new builds**
  - **Potential delivery gap all the way to FY15**

FY-10/11 Accomplishments

- Completed construction on the TQG Preservation Facility at Maintenance Center Albany
- Continued RT-CASS deliveries(KA-18A)
  - Rails, hoists & trolleys at M-12 & M-14 for EA-6B Support
  - Every other FW MALS gets two sets w/ rails, hoists & trolleys
  - Every MF has Rivnuts installed
- Continued delivery of RT-CASS High Power (KA-19A / KA-20B)
- Continued production/delivery of KA-31 (OTPS Support)
  - Once fleet unit attains excess TBA (combo of KA-14/15/16/31), Program Office will rqst excess KA-14/15/16 to be sent back

FY-10/11 Accomplishments

- Implemented new DP-19A configuration in direct support of OEF Operations with National Geospatial-Intelligence Agency
  - Reps attending LRG would like to meet with MARFORs and Wings
- Continued refurbishment of SW-02's to support SEC-5778
  - Will be complete by close of FY11
- Continued work toward Joint Expeditinary Field Forensics (JEFF) Program in support of OEF operations
  - Anticipate completion by end FY
- Transitioned MF Website from ".com" to

FY-10/11 Accomplishments

- Continued DP-18A NTCSS deliveries
  - Request disposition on DP-17s as DP-18As are delivered
- Started CR-04 (2M) MFs with Full Rate Production model
  - IH assessments identified issue with ventilation shortly after deliveries started
  - More discussion to come……
- Tiger Team Fleet Site Visits by Config Sites
  - More input from Config sites
- Continued with SEC-5824 kits providing increased amperage capability with new R-134A ECUs

FY-10/11 Accomplishments

- Cease of operations (closure) of Mobile Facility Configuration Site (MFCS) Norfolk, VA
- Released SEB-1034; set screws for R-134a ECU Squirrel Cage Fan
  - To date, only 10 sets of screws requested……
- Released SEB-1047 for proper torque/distance of R-134a ECU Outdoor fan motor
  - TPDR submitted to maintenance pub to match SEB guidance

Future Projects

- Continue towards updates/revisions for **ALL** manuals under MF Program cognizance
  - Long drawn out process to get all pubs updated, a lot driven by funding
  - **We can't fix what we don't know is broke, please submit TPDRs**
- ROCLOC Ramec
- Lift Off Hinges
- Material Analysis study
  - Alternate primers, paints, undercoating, etc

ROC LOC RAMEC

Pennsylvania, I-83

just a few miles down the road from Gichner

ROC LOC RAMEC

- Initial testing completed on JU-01 at Norfolk
- Initiated drawing changes
- Initiated RAMEC process
  - VAL/VER RAMEC sent to MALS-14
    - Data package sent to MALS-14 was not accurate/complete
    - THANK YOU to MALS-14 for identifying the deficiencies in the RAMEC so we could correct
    - Currently MALS-16 is re-doing VAL/VER with corrected data package

New MF upgrades

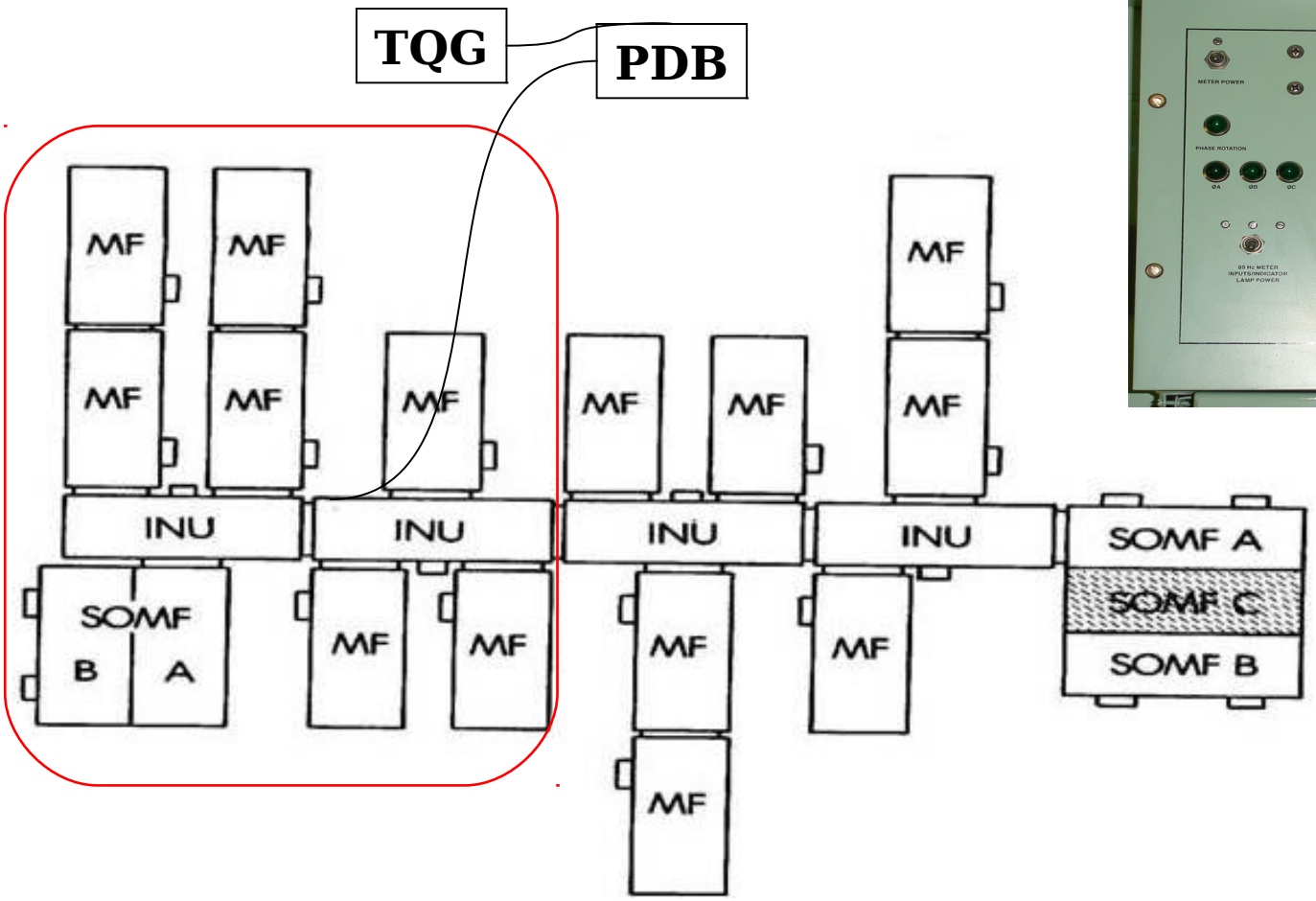
- Things we are currently in work for incorporation on new shells coming out of Gichner
- Or upgrades that we are pursuing (looking at) as potential upgrades to future new shells out of Gichner

INU Power Monitor

- INU Power monitor panel will meter all power loads applied to that INU, to include the total load from the “legs” attached
  - Identifies entire load draw from that power “pop-up” (60 Hz only)
  - Will assist in helping determine load balancing at the INU (if required)
  - Similar to Digital Power Monitor panel being installed in MFA, MFB, SOMF A, SOMF B and SOMF B “DD” shells

- 3 JUN 2011 GIVEN TO GICHNER FOR INSTALL IN FUTURE NEW PRODUCTION UNITS

INU Power Monitor



Digital Power Monitor

- Will affect the MFA's, MFB's, SOMFA's, SOMFB's and & SOMFBDD'S
- Will provide the following for 60Hz power:
  - Monitor Voltage, Amperage, Power and Frequency
- Panel has LED indicator to identify 60Hz phase reversal
- Panel has LED indicator to indicate 400 Hz power present
- Will start seeing them soon in new MFs (if not already)

Digital Power Monitor

INU Rain Gutters

- All new INU's will have gutters above the ECU, similar to what is already being fielded

INU Rain Gutters

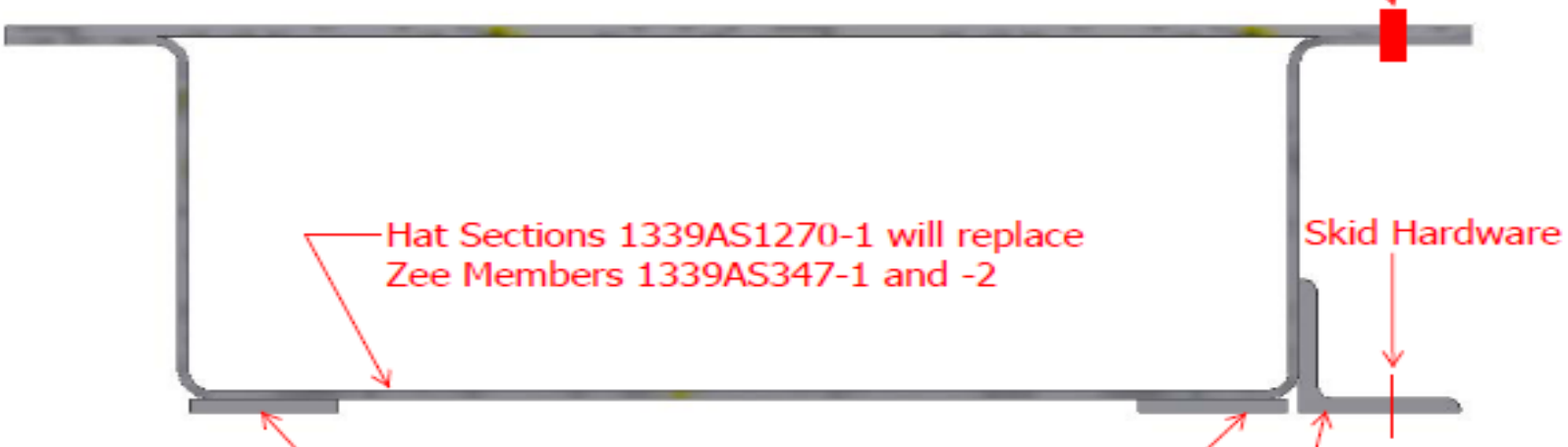
INU Rain Gutters

Fork Lift Pocket

- Gichner is doing ROM for cost of material/production
- CSC Plan Review in work

Solid Fork Lift Pockets

8 places only, HUCK Structural Rivets will need to move, because the installation tool cannot fit under the new angles. The new centerlines of the HUCK Rivets will be 1.25" from the outside edges of the new angles.


Hat Sections 1339AS1270-1 will replace
Zee Members 1339AS347-1 and -2
Skid Hardware
These bars will stay, to support the Shock Skids
and to aid in proper alignment of the new angles.
1.75 X 1.75 X 3/16 Angle, ASTM A36
(Will be 1339AS1271-1 and -2)

ECP 0006-034

Square “D” Power Panels

- Square D Power Panels added to last Delivery Order of shelters
- MFA’s, MFB’s, SOMFA’s, SOMFB’s & SOMFBDD’S will all use the same two section split bus panel (60 HZ – 400 HZ)

Square “D” Power Panels

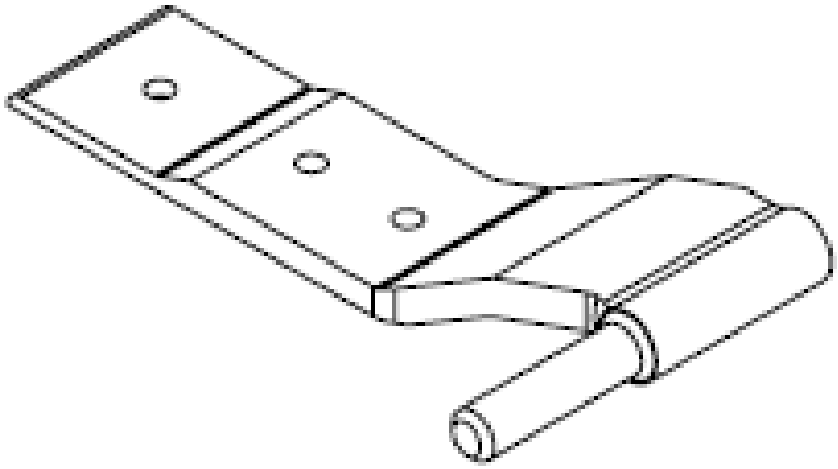
More MF Improvements

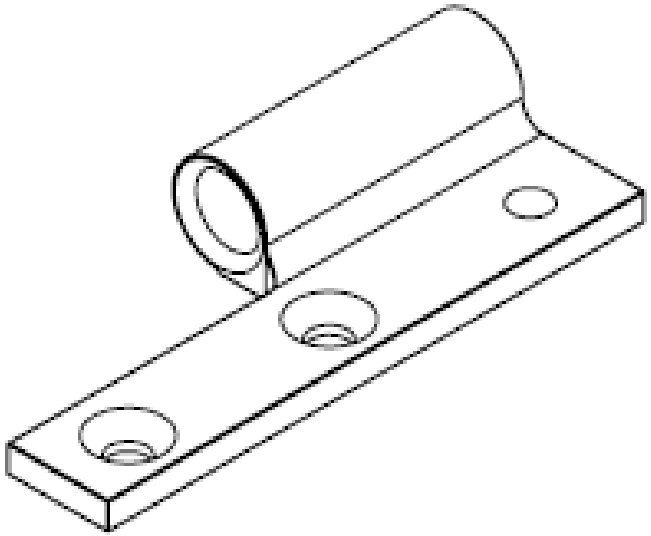
- Things we are currently in work for incorporation on any MF
- Or upgrades that we are pursuing (looking at) as improvements
- Or improvements in general within the Program to “get with the times”

Lift Off Hinges

- Huge difference maker when conducting TAVB operations (loading/unloading)
- First set were done machined and CSC tested one MF, passed testing
- Next set will be “cast” version and go through CSC process at Marine Container
- Intent is to have “Cast” variant stocked in supply system, but still have CSC approval for machined variant in the event of short term requirement
  - Could have open purchase manufactured to drawing specs

Lift Off Hinges





Positive Air Relief Valve

- Working with JOCOTAS group (Army Natick) in researching the venting required for the air transport of shelters
- Initial results look like we might not be able to come up with a viable solution
- JOCOTAS still working to aquire various flight profiles to adequately evaluate completed
- Final results will be reviewed to determine if a suitable automatic vent can be added to our MF’s
- Please make sure vents are propped open prior to air transport of MFs

Potential Positive Air Relief Solution

Butting Kits

- Three variations of Butting Kits
- Thumb Screw/4 Seams, Clip/1 Seam
- Fleet indicated 75% issue of maneuverability due to smaller gap distance in bellows
- Fleet indicated 25% issue of maneuverability due to tighter bellows with only one seam
- Engineering and Loggies made trip to SS Wright and seen “first hand” the issue
- Working on design solution

Materials Preservation

- Review Phase
  - NAVAIR 19-25-177 and NAVAIR 17-1-125 manuals reviewed
- Input Phase
  - Requested Fleet input for problem areas to be addressed
  - Received limited response June 13, 2011
- Plan Development
  - User comments currently being reviewed
  - Corrosion Prevention and Control Plan based on problem areas addressed is being developed
  - Estimated Time Frame: September 2011

Materials Analysis - Plan

- Conduct Demonstration / Validation on coatings
  - Improved protective coatings for underside of base frame
  - Alternate interior floor liner
- ELZLY Corporation - Coatings / corrosion control specialty
  - Contractor with NAVSEA, Marine Corps, and Army project experience
  - Proven success with polyurea and polyurethane coating systems
    - Including coatings tested in previous study
  - Include only those coatings based on mature technologies
    - No additional laboratory testing
    - Looking for implementation success
- Issue Delivery Order through NAVAIR 4.3.4 service contractor, NAVMAR
  - Funding in FY11 and FY12
- Status
  - Statement of work prepared
  - Anticipate delivery order 3rd quarter FY11

Materials Analysis – Tasks

Task	Objective	Timeframe	Deliverable	FY	Cost
Task 1 – Identify Alternative Materials for Demonstration	Develop a list of alternative technologies. Conduct stake holder meeting.	2 months from proceed date	Alternatives Report	11	$15,000
Task 2 – Develop Demonstration Plan	Formulate a demonstration plan based on the Task 1 effort.	4 months proceed date	Test Plan	11	$15,000
Task 3 – Conduct Demonstration	Apply new technologies to demonstration unit(s). Total exposure length is NAVAIR decision	Begin exposure 8 months from proceed date. Conduct inspection.	Demonstration unit(s)	12	$65,000
Task 4 – Final Report and Implementation Plan	Develop a final project report, including implementation requirements.	12 months from proceed date	Final Report	12	$15,000

1339 Drawing Updates

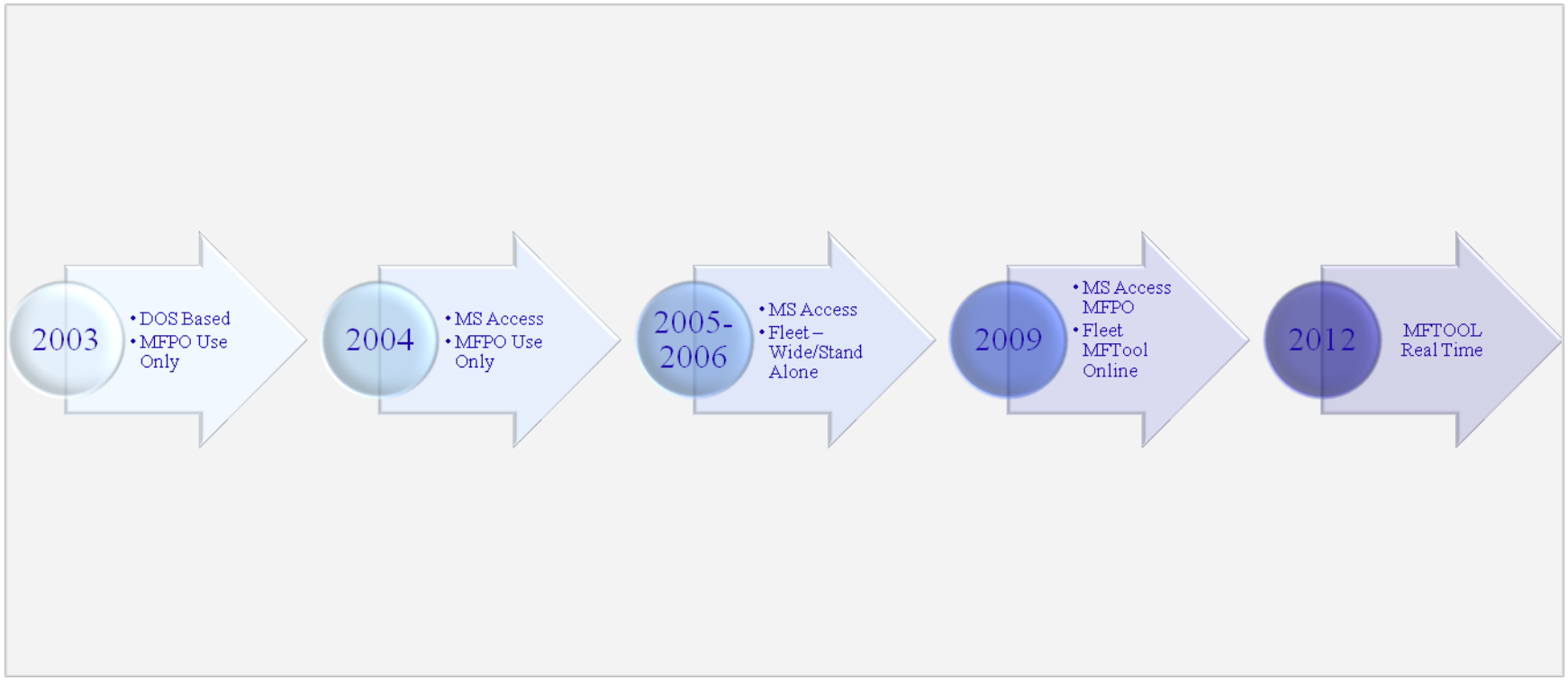
- Redraws from Mylar to AutoCAD
  - Drawings are copies of copies of copies of copies….and it goes on
- Contractor completed 21 drawings consisting of 113 sheets
- 21 drawings have been QA
- 10 drawings / 57 sheets left to be revised
- Completion by mid July 2011

- DCMA reps even ask when drawings will be updated

MFTool Admin Notes

- DA 2404s (Overall 14% CSC Failures or Inspection Over Due)
  - Add ISO Container Number next to S/N
  - Inspection Date and Date on Decal
  - Use fillable “pdf” file and electronically sign with CAC card
    - Download from MF website
- DD 1348-1As
  - S/N, Config Code, Survey Auth Msg DTG
  - Signed (and printed) & Dated by DRMO
- Post in MyNAVAIR vice sending via e-mail
  - Everyone will eventually be required to have an account
  - If you don’t have an account now……..request one

MFTOOL Past/Present/Future



Changes Coming

- Complete merger into a single, on-line authoritative system
- Reduced work load for all users
- Smarter, more intuitive interfaces
- Internal messaging system
- Link photos/documents to MFs
- And more …

- **Big hurdle is the NMCI bubble**

Expeditionary Delivery System

- Currently only a Marine Corps requirement
- To maintain configuration control/commonality across inventory, the Navy should look at this
  - Current SU-XX type configs do not work for Navy either
- Status update for acquisitions:
  - Industry day scheduled for late July
  - Proposals due Oct 2011
  - Contract expected to be awarded in Spring 2012
  - Currently only funding one EDS for “proof of concept” testing

EDS Notional Concept

- Modules can be made at different sizes for multiple applications.

EDS Notional Concept

- Drawers and cage can be reinstalled in module for transport on aircraft pallet, in helicopters, or in back of trucks or HUMVEEs

Mobile Facilities Website

- Technical Information/Documentation
- Program Overview
- Action Items & FAQs
- Related Site Links
- MF Top-down/Curb-side Drawings

http://www.navair.navy.mil/mobilefacilities/home.htm

Tell Us How You REALLY Feel!!!

- LRG Action Chits!!!
- TBA Changes to ASL!!!
- WSPD updates to CNAF!!!
- Local Help
  - MARFORs
  - Wings MFCs
  - NATEC

- Use the appropriate NAMDRP processes
- Direct Fleet Input to Program Office

Questions?

MOBILE FACILITY PROGRAM
MFP
THE FINEST ★ ANYTIME ★ ANYPLACE
IN OMNIA PARATUS
www.mobile-facilities.com

Program Background

- We work for NAVAIR—Lorie Nace (GS-15), Col Pettigrew, & Todd Mellon (SES); serve with autonomy
  - We strive for our customers, Marine Corps, Navy, Air Force, Army!
- We manage our own APN-7 & O&M,N budgets
- We have no RDT&E funding
  - Maybe we need to start looking at this??
- We are not staffed like other NAVAIR programs;
  - Not a PMA, but act as a PMA with a very small staff
- Provide life-time logistical support for all MFs
- We configure seven basic MF shells based on requirements